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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-29-04** **Date: 31/01/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing drinking water works no.07 in Byatarayanapura Division.

Agency : Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubhi(P), Bangalore East taluk Bangalore-560 077.

Customer's Reference : BBMP/EE/BTP/WO/11/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-18

Sample ID No : 2018-01-29-04/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/01/2018	31/01/2018	150.24 X 149.87 X 150.31	22516	8.145	286.0	12.7	13.0
2	PCC	M15	24/01/2018	31/01/2018	151.48 X 150.22 X 149.87	22755	8.139	314.0	13.8	
3	PCC	M15	24/01/2018	31/01/2018	150.34 X 150.71 X 151.39	22658	8.153	283.2	12.5	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

CIVIL PRO Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-29-04** **Date: 21/02/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing drinking water works no.07 in Byatarayanapura Division.

Agency : Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubhi(P), Bangalore East taluk Bangalore-560 077.

Customer's Reference : BBMP/EE/BTP/WO/11/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-01-18

Sample ID No : 2018-01-29-04/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/01/2018	21/02/2018	149.37 X 151.34 X 151.42	22606	8.137	411.4	18.2	18.0
2	PCC	M15	24/01/2018	21/02/2018	150.87 X 151.77 X 150.73	22898	8.164	414.4	18.1	
3	PCC	M15	24/01/2018	21/02/2018	150.38 X 150.49 X 150.37	22631	8.126	398.3	17.6	

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Asst. Executive Engineer,
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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-01-16-10** **Date: 20-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing drinking water works no.07 in Byatarayanapura Division.
Agency	:	Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubbi(P), Bangalore East taluk Bangalore-560 077.
Customer's Reference	:	BBMP/EE/BTP/WO/11/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-10/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	17-01-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	201	203	16403	32.180	1961.9	1979.2	Not less than 1800Kg/m^3
2	401	202	201	16281	32.380	1988.8		
3	402	202	201	16322	32.430	1986.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.180	32.520	5.10	5.13	Shall not be more than 10% by mass
2	34.290	32.640	5.06		
3	34.150	32.450	5.24		

Assistant Executive Engineer,
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Lab ID : **CP-2018-01-16-10** **Date: 20-01-18**

Sample ID No : **2018-01-16-10/04**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	201	
3	403	203	203	
4	401	201	200	
5	403	201	199	
6	401	203	201	
7	402	201	203	
8	403	203	201	
9	402	201	200	
10	401	201	201	
11	402	203	201	
12	404	201	203	
13	401	202	202	
14	401	201	203	
15	403	201	201	
16	400	201	203	
17	402	202	201	
18	400	203	202	
19	401	201	200	
20	403	203	203	
Average of 20	**402**	**202**	**201**	

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Yelahanka Zone, B.B.M.P.,
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Lab ID : **CP-2018-01-16-10** **Date: 20-01-18**

Sample ID No : 2018-01-16-10/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204	342.8	4.2	4.1
2	401	201	80601	369.8	4.6	
3	403	203	81809	323.7	4.0	
4	401	201	80601	301.3	3.7	
5	403	201	81003	349.7	4.3	
6	401	203	81403	315.7	3.9	
7	402	201	80802	341.9	4.2	
8	403	203	81809	328.5	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-16-10** **Date: 20-01-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Providing drinking water works no.07 in Byatarayanapura Division.

Agency : Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubhi(P), Bangalore East taluk Bangalore-560 077.

Customer's Reference : BBMP/EE/BTP/WO/11/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-01-18

Sample ID No : 2018-01-16-10/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-01-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	208	437	43.7	56.3	30-70	55-90	75-100	90-100
5	600 micron	135	572	57.2	42.8	15-34	35-59	60-79	80-100
6	300 micron	189	761	76.1	23.9	5-20	8-30	12-40	15-50
7	150 micron	153	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-16-10** **Date: 20-01-18**

Sample ID No : 2018-01-16-10/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.24	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-16-10** **Date: 20-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing drinking water works no.07 in Byatarayanapura Division.
Agency	:	Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubhi(P), Bangalore East taluk Bangalore-560 077.
Customer Reference	:	BBMP/EE/BTP/WO/11/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-10/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	185	185	3.7	96.3	90-100
3	10 mm	3117	3302	66.0	34.0	25-55
4	4.75 mm	1581	4883	97.7	2.3	0-10
5	Pan	117	5000	100	0	–

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-16-10** **Date: 20-01-18**

Sample ID No : 2018-01-16-10/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.5**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.19**	_
7	Aggregate crushing Value(%)	**23.1**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.8**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-16-10** **Date: 20-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing drinking water works no.07 in Byatarayanapura Division.
Agency	:	Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubhi(P), Bangalore East taluk Bangalore-560 077.
Customer's Reference	:	BBMP/EE/BTP/WO/11/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-10/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	4278	4512	30.1	69.9	30-70
4	10 mm	5961	10473	69.8	30.2	10-35
5	4.75 mm	4281	14754	98.4	1.6	0-5
6	Pan	246	15000	100.0	0	---

Assistant Executive Engineer,
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-16-10** **Date: 20-01-18**

Sample ID No : 2018-01-16-10/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**14.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.7**	
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.55**	_
6	Water Absorption(%)	**0.21**	_

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-16-10** **Date: 19-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing drinking water works no.07 in Byatarayanapura Division.
Agency	:	Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubhi(P), Bangalore East taluk Bangalore-560 077.
Customer's Reference	:	BBMP/EE/BTP/WO/11/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-10/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-01-18

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.28	–
2	Finess by Air permeablity method (m^2/kg, Min)	281.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-16-10** **Date: 14-02-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing drinking water works no.07 in Byatarayanapura Division.
Agency	:	Sri.S.Mohan Reddy, No.20, Bande Bommasandra, Doddagubhi(P), Bangalore East taluk Bangalore-560 077.
Customer's Reference	:	BBMP/EE/BTP/WO/11/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-10/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-01-18

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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